

MASLOV, V.P.; SHATSKIY, N.S., akademik, glavnyy redaktor; SHTREYS, N.A.,
otvetstvennyy redaktor; IL'INA, N.S., redaktor izdatel'stva; LA-
DYCHUK, L.P., redaktor izdatel'stva; KASHINA, P.S., tekhnicheskiy
redaktor.

[Fossil calcareous algae of the U.S.S.R.] Iekonomichesye investitsii
vodorosli SSSR. Moskva, Izd-vo Akademii nauk SSSR, 1956. 300 p.
(Akademiia nauk SSSR. Institut geologicheskikh nauk. Trudy, no.160)
(Algae, Fossil) (MLRA 9:12)

BOTVINKINA, L.N.; ZHEMCHUZHNIKOV, Yu.A.; TIMOFEEV, P.P.; NEOFILOVA, A.P.,
YABLOKOV, V.S.; JL'INA, N.S., redaktor izdatel'stva; KISELEVVA, A.A.,
tekhnicheskiy redaktor

[Atlas of lithogenous type middle Carboniferous coal deposits in
Donets Basin] Atlas litogeneticheskikh tipov uglenosnykh otlozhenii
srednego karbona Donetskogo basseina. Moskva, Izd-vo Akademii nauk
SSSR, 1956. 367 p.

(MLRA 9:10)

(Donets Basin--Coal geology)

IL'INA, N.S.,

Principal characteristics of sedimentation in the central part
of the Russian Platform during the lower Carboniferous epoch.
Trudy VNIIGENI no.8:28-33 '57. (MIRA 12:2)
(Russian Platform—Sediments (Geology))

SUVCHOV, V.P., et al.

SECHITAYLO, S.K.; MAJAROVA, T.T.; PULAKOV, V.V.; VASIL'YEV, V.V.;
IVANOVA, Z.P.; SUPSHTAI, N.G.

Central provinces of the Russian Platform. Trudy VNIGRI no.101:171-248
'57.

(Russian Platform--Geology)

BVENTOV, Ya.S., otv.red.; BURSHTAR, M.S., red.; IL'INA, N.S., red.;
SAKHOVSKIY, S.A., red.; KULIKOV, M.V., vedushchiy red.;
YASHCHURZHINSKAYA, A.B., tekhn.red.

[Geology and oil and gas potential of the southeastern areas of
the Russian Platform; transactions of the Stalingrad session of
the Science and Technology Council of the former Ministry of the
Petroleum Industry and the Scientific Council of the All-Union Petroleum
Geological Prospecting Institute] Geologiya i neft'-gazonesnost' iugovo-
vostochnykh raionov Russkoi platformy; po materialam Stalingradskoi
vyezdnoi sessii Nauchno-tehnicheskogo soveta b. Ministerstva neftianoi
promyshlennosti i Uchenogo soveta VNIIGTI. Sbornik statei. Leningrad,
Gos. nauchno-tehn. izd-vo neft. i gorno-toplivnoi lit-ry, Leningr.
otdelenie, 1958. 242 p.
(MIRA 12:3)

1. Leningrad. Vsesoyusnyy neftyanoy nauchno-issledovatel'skiy
geologo-razvedochnyy institut.
(Russian Platform--Petroleum geology)

IL'INA, N. S.

"Geology and Origin of Bokson Bauxites in Eastern Sayan" p.267

Mineralogy and Origin of Bauxites, Moscow, Izd-vo AN SSSR (otd. geologo-geograf. nauk) 1958, 486pp.

This collection of articles by various authors on the mineralogy and geochemistry of bauxites appeared as a result of 1955 conf. on the origin of bauxite (Chairman, Acad. N. M. Stakhov)

IL'INA, N.S., kand.geologo-mineralog.nauk; YELINA, L.N.; RYZHOVA, A.A.;
BULNOVA, V.M.; DMITRIYeva, L.Ya.; GIMPELEVICH, E.D.; GALAKTIONOVA,
N.M.; IL'INSKAYA, V.V.; SOLOV'YEVA, N.S.; KARAShev, M.S.; BAKHov, A.A.,
red.; WEBER, V.V., red.; DANOV, A.V., red.; DIKEMESSETEV, G.Kh., red.;
MAKSIMOV, S.P., red.; POZNYSH, M.A., red.; SAIDOV, M.H., red.;
SEMIKHATova, S.V., red.; TURKELTaub, H.M., red.; UL'YANov, A.V., red.
[deceased]; KHALTURIN, D.S., red.; SHABAYEVA, Ye.V., red.; CHIZHOv,
A.A., vedushchiy red.; YASHCHURZHINSKAYA, A.B., tekhn.red.

[Coal deposits of the central provinces of the Russian Platform]
Kamennougol'nye otlosheniia tsentral'nykh oblastei Russkoi platformy.
Pod red. N.S. Il'inoi. Leningrad, Gos.nauchno-tekhn.izd-vo neft. i
gorno-toplivnoi lit-ry, 1958. 209 p. (MIRA 12:3)

(Russian Platform--Coal geology)

3(0)

AUTHORS:

Timofeyev, G. I., Il'ina, N. S.

SOV/20-125-2-40/64

TITLE:

On the Problem of the Geochemical Conditions of the Sedimentation During the Bathon-Bajocian Age in Southern Dagestan
(K voprosu o geokhimicheskikh usloviyakh osadkonakopleniya v bat-bayoskoye vremya v Yuzhnom Dagestane)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, № 2, pp 379-382
(USSR)

ABSTRACT:

The authors studied the sediments mentioned in the title which had been obtained from bores. The determinations of sulfur, of C_{org}, of the iron forms, as well as the analyses of the bitumen components were carried out by G. I. Timofeyev. N. S. Il'ina studied the rocks, using transparent grindings. The petrographical characteristics of the loams, sandstones, and aleurolites, as well as of siderite are described. From table 1 it can be seen that the loams contain the maximum C_{org} quantity, and that the smallest amount of this substance is contained in the sandstones. In this connection aleurolites take an

Card 1/3

SOV/20-125-2-40/64
On the Problem of the Geochemical Conditions of the Sedimentation During
the Bathon' -Bajocian Age in Southern Dagestan

intermediate position. The reverse of this pattern is shown by the oxide form of iron. The authors drew up diagrams for the above-mentioned contents (Fig 1). It was found that the preponderant number of the loamy rock samples came from the sulfide-siderite zone, whereas the majority of the sandy-aleurite rocks are situated in the oxidative field. Thus favorable bitumen formation conditions prevailed during the sedimentation of the loamy deposits (Table 1, Ref 5). The scanty quantities of bitumen in the sandy-aleurite rocks may date from the migration from the loams. Analyses of the bitumens prove this theory (Table 1). There are 2 figures, 1 table, and 6 references, 5 of which are Soviet.

ASSOCIATION: Geologicheskiy institut Dagestanskogo filial' Akademii nauk
SSSR
(Geological Institute of the Dagestan Branch of the Academy
of Sciences, USSR)

Card 2/3

SOV/20-125-2-40/64

On the Problem of the Geochemical Conditions of the Sedimentation During
the Bathon -Bajocian Age in Southern Dagestan

PRESENTED: November 20, 1958, by N. M. Strakhov, Academician

SUBMITTED: November 19, 1958

Card 3/3

VSELOVSKAYA, M.M.; YELINA, L.M.; IL'INA, N.S.; KARASEV, M.S.; SONOLOVA,
L.I.; FILIPPOVA, M.F.; FRIKHT, D.L., kurator

Alatyr key well. Trudy VNIGNI no.26:113-175 '60. (MIRA 14:1)
(Russian Platform--Petroleum geology)

VESELOVSKAYA, M.M.; IL'INA, N.S.; PEDASHENKO, A.I. [deceased.]; TARASOVA,
A.G., kurator; PPLIPOVA, N.F.

Issa key well. Trudy VNIGNI no.26:176-226 '60. (MIRA 14:1)
(Russian Platform--Petroleum geology)
(Russian Platform--Gas, Natural--Geology)

GASSANOVA, I.G., kurator; YELINA, L.M.; IL'INA, N.S.; MARASEV, M.S.;
PUDASHENKO, A.I. [deceased]; FILIPPOVA, M.F. KNOXLOV, P.S.

Kikino key well. Trudy VNIGNI no.26:227-307 '60. (MIRA 14:1)
(Russian Platform--Petroleum geology)

IL'INA, N.S.

Recent data on tectonic dislocations in central regions of the
Russian Platform. Dokl. AN SSSR 140 no.1:185-188 S-O '61.
(MIRA 14:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologo-ratvedochnyy
neftyanoy institut. Predstavлено akademikom N.M.Strakhovym.
(Kovernino region--Geology, Structural.)

IL'IN, N.S., FILIPPOVA, N.F.

Recent data on Devonian deposits of the Ul'yankovsk anticline.
Dokl. AN SSSR 141 no.1:17-180 N '61. (KEM 14:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologo-razvedochnyy
neftyanoy institut. Predstavлено Akademikom N.N. Strakhovym.
(Alatyr' region--Geology, Stratigraphic)

IL'INA, N.S.

New data on volcanic processes in central areas of the Russian Platform. Biul. MOIP. Otd.geol. 37 no.3:126-127 My-Je '62.

(MIRA 15:10)

(Russian Platform--Rocks, Igneous)

LYASHENKO, A.I.; IL'INA, N.S.

Recent data on upper Devonian deposits on the southeastern slope
of the Tokmovo anticline. Dokl. AN SSSR 143 no.4:928-930 Ap
'62. (MIRA 15:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy
neftyanoy institut. Predstavлено akademikom N.M. Strakhovym.
(Rep'yevka region—Geology, Stratigraphic)

IL'INA, N.S.; PRUKHT, D.L.

New data on eruptive processes in the central regions of the
Russian Platform. Dokl. AN SSSR 143 no.5:1163-1165 Ap '62.

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy
neftyanoy institut. Predstavлено akademikom N.M.Strakhovym.
(Russian Platform--Geology, Stratigraphic)

IL'INA, N.S.; FRUKHT, D.L.

Distribution of volcanic rocks in the trans-Volga portion
of Gorkiy Province. Dokl. AN SSSR 153 no.4:906-908 D '63.

(MIRA 17:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy
neftyanoy institut. Predstavлено akademikom D.V. Malivkinym.

IL'INA, N.S.; NIKISHIN, V.I.; FRUKT, D.L.;

Possibility of finding oil in the terrigenous Devonian in the
region of Gorkiy city. Neftegaz. geol. i geofiz. no.10, 31-35 '63.
(MIRA 17:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy
neftyanoy institut i Institut geologii i razrabotki goryuchikh
iskopayemykh AN SSSR.

BATURIN, V.V., *glav. red.*; BRYUKHANOV, V.N., *red.*; TSIKKEL', L.M., *red.*; VOSKRESENSKIY, Ye.N., *red.*; IL'INA, M.S., *red.*; LEONOV, B.N., *red.*; LUNGERSGAUZEN, G.F., *red.*; MINSHAYA, V.M., *red.*; MORALEV, V.N., *red.*; RAKOVETS, O.A., *red.*

[Methods for the interpretation of the materials of aerial photography in geological studies; materials] Metody de-shifrirovaniia aerofotomaterialov pri geologicheskikh issledovaniyakh; materialy. Glav. red. V.V.Baturin, V.N. Briukhanov, L.M.Tsikkel'. Moskva, Izd-vo "Nedra," 1964. 150 p. (MIRA 17:7)

1. Vsesoyuznyy seminar po geologicheskomu de-shifrirovaniyu pri geologicheskikh issledovaniyakh, Moscow, 1961.

IL'INA, N.S.; FRUKHT, D.D.

New data on the geology of the Gorodetsko-Koverninskaya zone.
Trudy VNIGNI no.36:149-155 '63. (MIRA 17:9)

IL'INA, N.S.; FRUKHT, D.L.

Oil and gas potential of the Devonian sediments of the central areas of the Russian Platform. Geol. nefti i gaza § no.8:44-48 Ag '64. (MIRA 17:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy institut.

NAZAREVSKIY, S.I.; MAKAROV, S.N.; PILIPENKO, V.S.; GERASIMOV, M.V.; IL'INSKAYA, M.L.; VEKSLER, A.I.,[deceased]; VASIL'YEV, I.M.; IL'INA, N.V.; SOKOLOV, S.Ya.; LOZINA-LOZINSKAYA, A.S.; SAAKOV, S.G.; ZALESSKIY, D.M.; AVHORIN, N.A.; IVANOV, M.I.; PRIKLADOV, N.V.; SOBOLNITSKAYA, K.A.; SALAMATOV, M.N.; MALINOVSKIY, P.I.; LUCHNIK, A.I.; KRAVCHENKO, O.A.; VEKHOV, N.K.; GROZDOV, B.V.; MASHKIN, S.; BOSSE, G.G.; PALIN, P.S.,(g. Shuya, Ivanovskoy oblasti); MATUKHIN; ZATVARNITSKIY, G.Y.; ORACHOV, N.O.; CHERKAISOV, M.I.; KIRKOPULO, Ye.N.; LEVITSKAYA,A.M.; GRIGISHKO, N.N.; LIKHVAR', D.F. VIL'CHINSKIY, N.N.; LYPA, A.L.; OREKHOV, M.V.; SHCHERBINA, A.A.; TSYGANKOVA, V.Z.; BARANOVSKIY, A.L.; GEORGIVINSKIY, S.D.; STEPUNIN, G.A. OZOLIN, E.P.; LUKAYTENE, M.K.; KOS, Yu.I.; VAIL'YEV, A.V.; RUKHADZE, P.Ye.; VASHADZE, V.N.; SHANIDZE, V.M.; MANDZHAVIDZE, D.V.; KORNESHEVO, A.L.; KOLESNIKOV, A.I.,(g. Sochi); SERGEYEV, L.I.; YOLOSHIN, M.P.; RYBIN, V.A.; IVANOVA, B.I.; RYABOVA, T.I.; GAREYEV, E.Z.; RUSANOV, N.N.; BOCHANTSUVA, Z.P.; BLINOVSKIY, K.V.; KLYSHEV, L.K.; MUSHREGYAN, A.M.; LEONOV, L.M.

Talks given by participants in the meeting. Biul.Glav.bot.sada no.15:
85-182 '53. (MLRA 9:1)

1. Glavnnyy botanicheskiy sad Akademii nauk SSSR (for Makarov,Pilipenko, Gerasimov, Il'inskaya, Veksler); 2. Akademiya komunal'nogo khozyaystva imeni K.D. Pamfilova for Vasil'yev); 3. Vsesoyuznaya sel'skokhozyaystvennaya vystavka (for Il'ina); 4. Botanicheskiy sad Botanicheskogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, Lozina-Lozinskaya, Saakov); 5. Botanicheskiy sad Leningradskogo
(continued on next card)

NAZAREVSKIY, S.L.---(continued) Card 2.

gosudarstvennogo ordena Lenina universiteta (for Zalesskiy); 6. Pol'yarno-Al'piyskiy botanicheskiy sad Kol'skogo filiala imeni S.M. Kirova Akademii nauk SSSR (for Avrorin); 7. Botanicheskiy sad pri Tomskom gosudarstvennom universitete (for Ivanov); 8. Botanicheskiy sad pri Tomskom gosudarstvennom universitete imeni V.V. Kuybysheva (for Prikladov); 9. Tsentral'nyy Sibirschiy botanicheskiy sad Zapadno-Sibirskogo filiala Akademii nauk SSSR (for Salamatov, Sobolevskaya); 10. Botanicheskiy sad Irkutsko gosudarstvennogo universiteta imeni A.A. Zhdanova (for Malinovskiy); 11. Altayskaya plesovo-yagodnaya optynaya stantsiya (for Luchnik); 12. Bashkirskiy botanicheskiy sad (for Kravchenko); 13. Lesostepnaya selektsionnaya optynaya stantsiya dekorativnykh kul'tur tresta Gosselenkhos Ministerstva kommunal'nogo khozyaystva RSFSR (for Vekhov); 14. Bryanskij lesokhozyaystvennyy institut (for Grozdov); 15. Botanicheskiy sad pri Voronezhskom gosudarstvennom universitete (for Mashkin); 16. Orskovo-Zuyevskiy pedagogicheskiy institut (for Bosse); 17. Botanicheskiy sad pri Rostovskom gosudarstvennom universitete imeni V.M. Molotova (for Matukhin); 18. Botanicheskiy sad Kuybyshevskogo gorodskogo otdela narodnogo obrazovaniya (for Zatvarnitskiy); 19. Zoobotanicheskiy sad pri Kazanskem universitete (for Grachev); 20. Gosudarstvennyy respublikanskiy proektnyy institut "Giprokommunstroy" (for Cherkasov); 21. Botanicheskiy sad Odesskogo gosudarstvennogo universiteta imeni I.I. Mechnikova (for Kirkopulo); 22. Botanicheskiy sad pri Dnepropetrovskom gosudarstvennom universitete (for Levitskaya); 23. Botanicheskiy sad
(continued on next card)

HAZAREVSKIY, S.L.---(continued) Card 3.

Akademii nauk USSR (for Grishko, Likhvar', Vil'chinskij); 24. Kiyevskiy sel'skokhozyaystvennyy institut (for Lypa); 25. Botanicheskiy sad Chernovitskogo gosudarstvennogo universiteta (for Orekhov); 26. Botanicheskiy sad pri L'vovskom gosudarstvennom universitete imeni Iv. Franko (for Shcherbina); 27. Botanicheskiy sad Khar'kovskogo gosudarstvennogo universiteta imeni A.M. Gor'kogo (for TSygankova); 28. Botanicheskiy sad Zhitomirskogo sel'skokhozyaystvennogo instituta (for Baranovskiy); 29. Botanicheskiy sad Akademii nauk Belorusskoy SSR (for Georgiyevskiy); 30. Institut biologii Akademii nauk Belorusskoy SSR (for Stepinin); 31. Botanicheskiy sad Akademii Litovskoy SSR (for Lukaytene); 32. Botanicheskiy sad Latviyskogo gosudarstvennogo universiteta (for Ozolin); 33. Kabardinskiy krayevedcheskiy botanicheskiy sad (for Kos); 34. Sukhumijskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Vasil'yev, Rukhadze); 35. Batumskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Shanidze); 36. Tbilisskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Mandzhavidze); 37. Sochinskiy park Dendrariy (for Korkeashko); 38. Gosudarstvennyy Nikitskiy botanicheskiy sad imeni V.M. Molotova (for Sergeyev, Voloshin); 39. Krymskiy filial Akademii nauk SSSR (for Rybin); 40. Botanicheskiy sad Moldavskogo filiala Akademii nauk SSSR (for Ivanova); 41. Botanicheskiy sad Botanicheskogo instituta Akademii nauk Tadzhikskoy SSR (for Ryabova); 42. Botanicheskiy sad Kirgizskogo filiala Akademii nauk SSSR (for Gareyev); 43. Botanicheskiy
(continued on next card)

NAZAREVSKIY, S.L.---(continued) Card 4.

sad Akademii nauk Usbekskoy SSR (for Rusanov, Bochartseva); 44.
Botanicheskiy sad Akademii nauk Turkmenskoy SSR (for Blinovskiy);
45. Respublikanskiy sad Akademii nauk Kazakhskoy SSR (for Klyshev,
Mushegyan).

(Botanical gardens)

IL'INA, N.V.
GRYUMER, V.S., professor; REZNIKOWA, S.B., kandidat khimicheskikh nauk
IL'INA, N.V., nauchnyy etrudnik

Testing the technical qualities of almonds from the Nikitskii
Botanical Garden. Trudy VENII no.10:106-118 '54. (VENI 8:9)
(Almond)

IL'INA, N. V.

"Investigation of Liver Functions Related to the Protein Metabolism During Sporiasis." Cand Med Sci, First Leningrad Medical Inst, Leningrad, 1953.
(RZhBiol, No 7, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations
Defended at USSR Higher Educational Institutions (16).

IL'INA, N.V., kandidat meditsinskikh nauk

Role of trauma in scleroderma and atrophic acrodermatitis. Vest.
ven. i derm. no.3:52 My-Je '56. (MIRA 9:9)

1. Iz stomatologicheskogo fakul'teta ISOMI.
(SCLERODERMA) (SKIN--DISEASES)

IL'INA, N.V.

Some liver functions in psoriasis and other dermatoses.
N. V. Il'ina (in Leningrad Med. Inst.). Vestn. Med. i Fiz.,
1959, No. 1, 25-8 (1959). Disturbed liver function
appears with the initiation of psoriasis and disappears after
cure. More severe and resistant disturbance is noted in
eczema and other chronic dermatoses. The disturbance is
shown by lowering of blood urea in the acute stage in psoriasis
and by its rise in cases of eczema. G. M. Kozlova

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IL'INA, N.V., kand. med. nauk (Leningrad)

Occupational diseases of the skin; review of the periodicals
for 1961-1963. Vest. derm. i ven. 39 no.4:33-40 Ap '65.
(MIRA 19:2)

1. Submitted Feb. 16, 1964.

IL'INA, N.V.

Progressive movement of the fetal head during the first stage of
labor. Akush. i gin. no.3:40-43 My-Je '54. (MLRA 7:8)

1. Iz kafedry akushierstva i ginekologii (zav. prof. Ya.M.Polonskiy)
Chkalovskogo meditsinskogo instituta.

(DELIVERY,

*progressive movement of fetal head in first stage)

POLONSKIY, Ya.N., professor [deceased]; IL'INA, N.V.

Comparative evaluation of a retrovesical and classical cesarean section. Akush. i gin. 32 no.4:24-28 Jl-Ag '56. (MIRA 9:11)

1. Iz kafedry akushерства i ginekologii (sav. - professor Ya.N. Polonskiy [deceased] Chkalovskogo meditsinskogo instituta.
(CESAREAN SECTION
classical & retrovesical methods, comparison)

IL'INA, N.V., assistant

Immediate and late results of cesarean section in the mother and
newborn child. Kaz. med. zhur. 41 no.3:41-45 My-Je '60. (MIRA 13:9)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. M.V. Dubnov)
Orenburgskogo meditsinskogo instituta.
(CESAREAN SECTION)

immediat
IL'INA, N. V. Cand Med Sci -- "████████ and remote results of a Caesarian
section for mother and foetus." Saratov, 1961 (Min of Health RSFSR. Saratov
State Med Inst). (KL, 4-61, 209)

-348-

IL'INA, N.V.

Immediate and late sequelae from the use of forceps for the mother
and fetus. Vop.okh.mat. i det. 7 no.12:81 D'62. (MIRA 16:7)

1. Iz kafedry akushерства i ginekologii Orenburgskogo meditsinskogo
instituta.
(CHILDREN—DISEASES) (GYNECOLOGY)

CINCH, N.Y.

CA

3. Application of concepts

Change in physical properties of cementitious materials on calcining. N. J. Lewis and N. V. McNamee. *Transl. No. 3, 7-13 (1944).*—Contracture, porosity, vol. wt., d. and mech. strength changes were studied on calcined raw materials. The raw materials studied comprised 3 clay-limestone mixtures and a natural marl. The 3 clays were a kaolinitic, a polymersilicate clay (montmorillonite), and a polymersilicate clay (smectite). All materials were fired at various temps., i.e., in addition to the materials heated at 1200°, 1400°, and 1600°, the materials behaved differently but the general trend was similar. The total shrinkage was 14-56%. Heated up to the point of fusion, the material had a porosity of up to 44% but their pores were of the open type. The highest porosity, 66-73%, was attained near 800° when CO_2 was driven off. The properties of materials heated to 800° were determined by the transformations in the clay components. The high d. of materials fired at 900° indicates the presence of free oxides and primary and secondary $\text{CaO}-\text{Al}_2\text{O}_3$. Above this temp., the d. decreased owing to the formation of higher humidity aluminates and β - and γ -dihydrate silicates. Fusion began at 1300°. Further increase in temp. caused an increase in the vol. wt. and d., a sharp increase in resistance to crushing, and a sharp decrease in the true and apparent porosity. An increase in porosity above 1400-1500° is apparently due to recrystallization of minerals, change of Ca hydrosilicate, decomposition of Na_2O , and evaporation of CO_2 . It is important for the quality of clinker to determine the firing temp. for the raw materials. M. Hirsch.

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IL'INA, N.Y., inshener.

Interaction of chrome-magnesite refractories and portland clinkers.
Trudy GIPROTHMEST 19:110-138 '50. (MLM 10:4)
(Refractory materials) (Clinker brick)

IL'NA, M. V.

Il'na, M. V. -- "A Study of the Interaction of Chromomagnesite Bricks With Portland Cement Clinkers." Cand Tech Sci, State All-Union Inst for Planning and Sci Res Work, Giprotsement, Leningrad 1954. (Referativnyy Zhurnal--Khimiya, No 1, Jan 54)

So: SUM 168, 22 July 1954

Irina, N.V.

Effect of water cooling of rotary kiln on the formation of a protective coating on the lining. N. V. IRINA. Tremet, 20 [1] 29-24 (1951).—The density and firmness of the protective coating depends on the temperature conditions of its existence. The coatings taken from intensively cooled sections of kiln at three different weeks were denser and firmer than those from those highly cooled sections. Coatings from the lining outside the cooled zone and from kilns without water cooling were friable and porous. The characteristics of the coating vary along the thickness. The lower layers of the coating, adjoining the lining, are denser and firmer than the upper layers. B.Z.K.

15-57-4-4655

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4,
p 95 (USSR)

AUTHORS: Klyucharov, Ya, V., Il'ina, N. V., Mikhaylova, N. K.

TITLE: Alteration of the Phase Composition and the Technical
Properties of the Nonfired Chrome-Magnesite Refractory
Material Used in a Rotary Cement Kiln (Izmeneniye
fazovogo sostava i tekhnicheskikh svoystv bezobzhigovogo
khromomagnezi tovogo ogneupora pri sluzhbe v tsementnoy
vrashchayushcheysya pechi)

PERIODICAL: Tr. Gos. Vses. in-t po proyektir. i nauch-issled.
rabotam v tsement. prom-sti, 1956, Nr 19, pp 54-66.

ABSTRACT: Bibliographic entry

Card 1/1

IL'INA, N., kandidat tekhnicheskikh nauk.

New refractory materials for lining rotary kilns. Stroi. mat. 3 no.5:
17-18 My '57.
(Kilns, Rotary) (Refractory materials)

AUTHOR: Il'ina, N.V.

101-58-3-10/12

TITLE: Chronicle (Khronika)

PERIODICAL: Tsement, 1958, Nr 3, p 31 (USSR)

ABSTRACT: The Tsk of the Trade Union of the Building Material Industry, together with the Nitcement Institute, arranged a meeting of workers of the cement industry, along with representatives of the sovnarkhozes and scientific research institutes. The meeting took place at the cement plant "Gigant" on May 8-10, 1958. The participants exchanged their experiences relative to the use of refractory material in the respective plants. Various deficiencies were mentioned as to the quality of raw materials and the scientific assistance on the part of pertinent institutes. It was decided that special attention should be paid to improved technology of refractories, better raw material and more regular supply of fuel.

1. Cement industry--Conference

Card 1/1

AUTHORS: Belyayev, A.K.; Il'ina, N.V. SOV-101-50-4-3/12

TITLE: The Mechanization of Brick-Lining Work in the Cement Industry
(Mekhanizatsiya futerovochnykh rabot v tsementnoy promyshlennosti)

PERIODICAL: Tsement, 1958, Nr 4, pp 10-15 (USSR) ²⁴

ABSTRACT: The authors tell of the necessity to mechanize brick lining work. They describe the methods of work and recommend suitable equipment. They give instructions for the treatment of material, its transportation in plant area, storage facilities and devices for bracing the erected lining. They mention the plant "Pnevmatika" of Leningrad as a producer of pneumatic hammers and "Elektroinstrument", Khar'kov, as a producer of electric hammers. Mortar mixers of type C-50 are manufactured by the Novosibirsk and movable concrete mixers of type C-187, as well as type C-227, by the Tyumen' plant. Type C-99 mixers are produced by the Slavyansk plant. There are 7 diagrams, 1 table, and 1 Soviet reference.

1. Cement industry--Equipment 2. Materials--Handling
3. Industrial plants--Equipment

Card 1/1

15 (6)

SOW/101-59-5-4/11

AUTHORS: Il'ina, N. V., Vlasov, I. I., Khazanova, Kh. A., and Shadrina, M. N.

TITLE: On the Use of Light-Weight Refractories for Lining Rotary Kilns

PERIODICAL: Tsement, 1959, Nr 5, pp 9 - 13 (USSR)

ABSTRACT: The authors state that in the early days of the cement industry the lining of kilns was considered exclusively as a protection of the kiln body against the effect of high temperatures. Consequently any fire resistant material was acceptable. The increase in the productivity of kilns has led to more requirements on the qualities of the lining. The physico-chemical process varies in depending upon the thermal conditions in the burning zones of the kiln. To reduce thermal losses, or to save as much as possible of the heat for the burning process, a suitable lining material must be used for insulation purposes. For years this matter has been raised by various authors. High-porous fire-resistant chamotte refractory insulation bricks were used for lining kilns in

Card 1/5

SOV/101-59-5-4/11

On the Use of Light-Weight Refractories for Lining Rotary Kilns

the U. S., England, Puerto Rico. Compared with the light-weight refractory material produced at the Borovichskiy kombinat "Krasnyy keramik" ("Krasnyy Keramik" Borovichi Combine), it shows better thermo-insulation properties, a smaller volumetric weight, with a mechanical strength of 30 kg/sq cm. On the other hand the Borovichi light-weight refractory material has better mechanical resistance, which is for compressive strength 45 to 80 kg/sq cm for class A material, and 30 to 45 kg/sq cm for class B material. Due to the lower content of alumina, the fire resistance of the foreign material is 1690° against 1750° of the Borovichi light-weight refractories. Table 1 shows comparative data on the materials originated from the General Refractories Company and the "Krasnyy Keramik" Borovichi Combine, classes A and B. The Borovichi light-weight refractory bricks were first tried in the lining of a rotary kiln at the Pikalevskiy tsementnyy zavod (Pikalevo Cement Plant). The bricks used belonged to class B (GOST 5040 - 58). Their compressive strength was within the limits of 35 - 42 kg/sq cm (average 38 kg/sq cm), porosity 52% and volumetric weight 1.26 g/cu. cm.

Card 2/5

SOV/101-59-5-4/11

On the Use of Light-Weight Refractories for Lining Rotary Kilns

During a thermal stability test, the material resisted more than 25 heat variations within the 850°C heat limit and intermediate water cooling. The fluxing action between clinker and lining bricks was also tried at a maximum temperature of 1250° for light-weight refractory lining, followed by a severe trial at a temperature of 1500°. A photograph (Figure 1) shows bricks prior to and after the trial. No erosion was found in the lining after the first of the above trials. In a second test, after one hour of exposure to the effects of a heat of 1,500°C, the lining bricks were affected by the raw mixture to a depth ranging between 1 and 5 mm. Examination of the junction between two zonal linings made of Ts-1 and Ts-2 chamotte bricks, and light-weight lining adjacent to the latter without temperature compensations seams, revealed deterioration in the light-weight refractory bricks. At the junction borders the bricks became friable, and a 2 mm wide gap appeared at the junction. Cracks were visible 70 to 80 cm inward from the junction. Photograph 2 shows junctions at the cold side (left) and at the hot side of the kiln (right).

Card 3/5

SOV/101-59-5-4/11

On the Use of Light-Weight Refractories for Lining Rotary Kilns

After 6 months of successful operation of a kiln lined with light-weight refractories, the temperatures of the kiln body were measured. In the tested zone, the temperature was 180 - 195° and in the zones lined with usual chamotte refractory bricks, the temperature was 235° at the hot side of junction and 220° at the cold side. Heat losses for 1 sq m of the tested surface was 2450 kcal/sq m per hour, or 69% of the heat losses of the sections lined with chamotte refractories was found to be 3540 kcal/sq m per hour. Consequently, use of the light-weight chamotte with a volumetric weight of 1.9 g/ccm for lining will result in a 30% reduction of heat losses due to conduction through the lining. The author concludes that the first experience in lining the burning zone in the rotary kiln at the Pikalevo Cement Plant has shown that the qualities of the domestic fire-resistant material are not inferior to material of foreign origin, in relation to fire resistance, strength, thermal resistance and the flux between the clinker and bricks. The author recommends that in another test the trial zone be lined with class A light-weight refractory bricks over a length.

Card 4/5

SOW/101-59-5-4/11

On the Use of Light-Weight Refractories for Lining Rotary Kilns

of 20 m. The bricks should be laid on a chamotte-clay mixture. Precautions must be taken to exclude the possibility of a longitudinal displacement of the lining. There are 2 sets of photographs, 1 table and 5 references 3 of which are English, 1 German and 1 Soviet

Card 5/5

IL'INA, N.V.; KLEMENT'YEVA, O.I.

Phase composition of heatproof magnesite-chromite refractories
after their service in a cement kiln. Trudy Giprotsement
no. 21:56-72 '59. (MIRA 13:12)
(Refractory materials)

IL'INA, N.V.; SOKHATSKAYA, G.A.; SHADRINA, M.N.

Service of linings in the clinkering zone. TSegment 27 no.6:8-10
M-D '61. (MIRA 15:3)
(Cement kilns) (Refractory materials)

IL'INA, N.V.; KHAZANOVA, Kh.A.

Wear of aluminum silicate refractories in the lining of a
rotary cement-roasting kiln. Trudy Giprotsement no. 24, 92-
102 '62. (MERRA 16:4)

(Aluminum silicates) (Kilns, Rotary)

IL'INA, N.V.; SOKHATSKAYA, G.A.; SHADRINA, M.N.; TISHKOVA, K.S.

Analysis of the stability of linings of rotary kilns. Element 28 no.6:
16-17 N-D '62. (MIRA 15:12)

1. Gosudarstvennyy institut po ptoyektirovaniyu predpriyatiy i
nauchno-issledovatel'skim rabotam tsementnoy promyshlennosti
i Gosudarstvennyy vsesoyuznyy nauchno-issledovatel'skiy institut
tsementnoy promyshlennosti.
(Kilns, Rotary) (Refractory materials)

IL'INA, N.V.; SOKHATSKAYA, G.A.; SHADRINA, M.N.; TISHKOVA, K.S.

Durability of lining of rotary kilns in 1962. TSEment 29
no. 5:9-11 S-0 '63. (MKRA 16:11)

1. Gosudarstvennyy vsesoyuznyy institut po proyektirovaniyu
i nauchno-issledovatel'skim rabotam tsementnoy promyshlennosti i Vsesoyuznyy gosudarstvennyy nauchno-issledovatel'skiy institut tsementnoy promyshlennosti.

IL'INA, N. V.; SKOBIO, L. I.

Refractory concrete on silicate binding material. Trudy
Giprotsement no. 26:143-161 '63. (MIRA 1745)

IL'INA, N.V., kand.tekhn.nauk; BELYAYEV, A.K., inzh.; ZAKHARENKO, V.K.,
inzh.; SKOBLO, L.I., inzh.

Testing refractory concrete on molten glass in large-diameter
kiln. TSement 30 no. 2:12-13 Mr-Ap '64. (MIRA 17:5)

1. Vsesoyuznyy gosudarstvennyy nauchno-issledovatel'skiy i
proyektnyy institut tsementnoy promyshlennosti.

IL'INA, N.V.; SKOBLO, O.O.

Change in the composition and qualities of refractory concrete
with a silicate binder while serving as lining for rotary kilns.
Trudy Giprotsement no.27:107-116 '63. (MIRA 17:12)

IL'INA, N.V., kand.tekhn.nauk; SOKHATSKAYA, G.A., kand.tekhn.nauk; SHADRINA,
M.N., inzh.; TISHKOVA, K.S., inzh.

Durability of brick linings in rotary kilns. TSement 30 no.6:9-11.
N-D '64. (MIRA 18:1)

IL'INA, N.V., kand. tekhn. nauk; FEDOROV, N.G., Inzh.; SKOBLO, I.I., Inzh.

Rotary kiln lining from concrete blocks. Tsement 31 nov. A:14-15 Jl-
Ag '65. (MIRA 12:8)

1. Vsesoyuznyy gosudarstvennyy nauchno-issledovatel'skiy i proektnyy
institut tsementnoy promyshlennosti.

IL'INA, N.V., kand. khim. nauk.; SOKHATSKAYA, G.A., kand. tekhn. nauk; SHADRINA, M.N., inzh.; KOROLEVA, E.P., inzh.

Durability of the linings of rotary kilns in 1964. Tsement
31 no. 6:4-6 N-D '65. (MIRA 18:12)

1. Gosudarstvennyy vsesoyuznyy institut po proektirovaniyu i nauchno-issledovatel'skiy raboty tsementnoy promyshlennosti, Leningrad. Vsesoyuznyy gosudarstvennyy nauchno-issledovatel'skiy institut tsementnoy promyshlennosti.

IL'INA, O.A., inzh., otv. za vyp.

[Reports and communications of the "Section for Structures on Automobile Roads" of the Technical Conference on the Construction of Automobile Roads] Doklady i soobshcheniya Nauchno-tehnicheskogo soveshchaniia po stroitel'stvu avtomobil'nykh dorog. Moskva; Gos. Vses. dorozhnyi nauchno-issled. in-t, 1963. 141 p. (NIRA 17:4)

1. Nauchno-tehnicheskoye soveshchaniye po stroitel'stvu avtomobil'nykh dorog. Sektsiya iskusstvennykh socruzheniy ra avtomobil'nykh dorogakh.

IL'INA, O.P., Cand Med Sci —(diss)"Hygienic importance of swimming
instructions ^(check age) to [redacted] children under conditions of winter swimming
pool." Gor'kiy, 1959. 14 pp (Gor'kiy State Med Inst in S.M. Birov),
200 copies (ID ,32-50, 105)

- 41 -

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000618510011-8

Method of preparing a film of electrical insulation by impregnating a polymer compound

Method of preparing a film of electrical insulation by impregnating a polymer compound
Class 39, No. 170649

15

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000618510011-8"

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000618510011-8

NO REF Sov: 000

OTHER: 000

ADM PHM#S: 0018

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000618510011-8"

IL'INA, O.N.

Derivatives of ceresins as depressors of lubricating oils. Trudy Akad.
neft. prom. no.3:216-224 '56. (MIRA 10:11)
(Ceresin) (Lubrication and lubricants)

5643
S/081/62/000/008/042/057
B156/B101

11.97 D0.

AUTHOR:

Il'ina, O. N.

TITLE:

High-efficiency depressants for lubricating oils synthesized from chlorine derivatives of ceresin

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 8, 1962, 483, abstract
8M209 (Sb. "Prisadki k maslам i toplivam". M.,
Gostoptekhizdat, 1961, 109-115)

TEXT: Specimens of the following cereins (C) were used for synthesis purposes: (1) C of mol.wt. 600 and melting point 73°C from Stanislav and Dagadzhik ozocerites; (2) C of mol.wt. 650 and melting point 83°C from the Shorsu district and Surakhany drilling ozocerites; (3) synthetic C of mol.wt. 550 and melting point 93°C. The C specimens were chlorinated with Cl₂ at 90-100°C to produce chlorinated C containing 120 and 250% Cl, reckoning for monochloro derivatives. Naphthalene was alkylated with chlorinated C to produce mono-, di-, and tri-substituted naphthalenes used as depressants. The action of the synthesized additives (SA) was investigated with waste MT-16 (MT-16) Emba oil, and with MG-20 (MS-20)

Ca

Card 1/2

KOTUL'SKIY, V.V., inzh.; IL'INA, O.V., inzh.; KIRICHENKO, N.I.,
kand. geol.-miner. nauk; MARTYNOV, V.S., inzh.;
LYKOSHIN, A.G., kand. geol.-miner. nauk, nauchn. red.;
GLOTOVA, L.V., red.; KASIMOV, D.Ya., tekhn. red.

[Seepage-preventing screens for dams; investigations,
design, and construction] Protivofiltratsionnye savasy
plotin; iz opyta izyskanii, proektirovaniia i stroitel'-
stva. Moskva, Gosstroizdat, 1963. 194 p.

(MIRA 17:1)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut
vodosnabzheniya kanalizatsii, gidrotekhnicheskikh sooruz-
sheniy i inzhenernoy gidrogeologii.

(Dams)

KOTUL'SKIY, V.V., inzh.; IL'INA, O.V., inzh.; KIRICHENKO, N.I.,
kand. geol.-miner. nauk; MARTYNOV, V.S., inzh.; LTKOSHIN, A.G.,
kand. geol.-min. nauk, nauchn. red.; GLOTOVA, L.V., red.; KASIMOV, D.Ya.,
tekhn. red.

[Seepage-control curtains of dams; investigation, plan-
ning, and building] Protivofiltratsionnye zavesy plotin;
iz opyta izyskanii, proektirovaniia i stroitel'stva. Mo-
skva, Gosstroizdat, 1963. 194 p. (MIR: 17:2)

11. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut vo-
dosnabzheniya, kanalizatsii, gidrotehnicheskikh voоружений
i inzhenernoy gidrogeologii.

USSR/Cultivated Plants - Commercial. Oil-Bearing. Sugar-Bearing. M

Abs Jour : Ref Zhur Biol., No 12, 1958, 53713

Author : Il'ina, P.R.

Inst :

Title : Obtaining New Forms in Long-Fibered Flax with Intravarietal Selection

Orig Pub : Agrobiologiya, 1957, No 4, 151-153

Abstract : In the process of selection and seed-growing work at the All-Union Scientific Research Institute for Flax, forms were separated which differed from the original ones by the coloration of the seeds, by the quality of the fibers and by the resistance to fusarium infection. Zheltosemyannyy variety was obtained from the selection of Svetoch variety by means of intravarietal selection; and from the I-9 variety, the I-9-717 family was selected. The conclusion is reached that it is feasible to improve the old varieties and to create new ones by means of intravarietal selection. -- A.M. Smirnov

Card 1/1

- 93 -

IL'INA, P.V., nauchnyy sotrudnik

Influence of the natural bactericidal action of donors' blood in
relation to the agents of dysentery. Akt.vop.perel.krovi no.4:
23-25 '55.
(MIRA 13:1)

1. Bakteriologicheskaya laboratoriya Leningradskogo instituta pereli-
vaniya krovi (sav. laboratoriye - starshiy nauchnyy sotrudnik T.A.
Krotova).

(DYSENTERY) (BLOOD)

IL'INA, P.V., nauchnyy sotrudnik

Immunologic properties of donors' blood and their significance in the treatment of scarlet fever by immunotransfusion. Akt.vop.perel.krovi. no.4:27-31 '55. (MIRA 13:1)

1. Bakteriologicheskaya laboratoriya Leningradskogo Instituta pereli-vaniya krovi (zav. laboratoriye - starshiy nauchnyy sotrudnik T.A. Krotova).

(SCARLET FEVER) (BLOOD AS FOOD OR MEDICINE)

IL'INA, P.V., nauchnyy sotrudnik

New test for the selection of donors for the purpose of treating
scarlet fever by immunotransfusion. Akt.vop.perel.krovi no.4:31-32
'55. (MIRA 13:1)

1. Bakteriologicheskaya laboratoriya Leningradskogo instituta pereli-
vaniya krovi (zav. laboratoriye - starshiy nauchnyy sotrudnik T.A.
Krotova).

(SCARLET FEVER)

(BLOOD DONORS)

IL'INA, P. V.

USSR / Microbiology. Human and Animal Pathogens.
Bacteria of Intestinal Group.

Abs Jour: Ref Zhur-Biol., No 2, 1959, 5571.

Author : Andreyev, M. F.; Il'vina, P. V.

Inst : Military Medical Academy.

Title : Complement-Fixation Reaction in Diagnosis of
Light Forms of Acute and Chronic Dysentery.

Orig Pub: Tr. Voyon.-med. akad., 1957, 72, 28-46.

Abstract: One hundred thirty-six subjects with chronic,
and 130 with acute, forms of dysentery were ex-
amined using complement-fixation test. All the
subjects were immunized against dysentery sub-
cutaneously. Most of the isolated cultures
were Flexner ssp. microorganisms. By C.F.T.,
positive results were obtained in 21% of sub-

Card 1/3

37

LEYBUSH, A.G., kand.khim.nauk; SHORINA, Ye.D.; Prinimali uchastiyu:
GORBAN', S.M.; II'ina, R.A.

Conversion of methane at elevated pressure. Dila. prom.
no. 61469-476 8 '60. (MIRA 13;11)
(Methane)

LEYBUSH, A.G.; SHORINA, Ye.D.; Prinimali uchastiye: GORBAN', S.M.; IL'INA, R.A.

Study of the initial stage of the process of methane conversion
at high pressure. Khim.prom. no.3:159-165 M. '62. (MIRA 15:4)
(Methane) (Oxidation) (Catalysts)

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000618510011-8

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000618510011-8"

ZAKS, I.A., inzhener; ZVEZINTSEV, S.K., inzhener; IL'INA, R.N., inzhener;
KHINSKIY, P.D., kandidat tekhnicheskikh nauk.

Brittle breaking of 1Kh1Z steel during soldering.
Energomashinostroenie no.9:15-19 3 '56.

(MLRA 9:10)

(Solder and soldering) (Steel--Brittleness)

SIMYREV, Aleksandr Nestorovich; MORENSHIL'DT, Vera Alekseyevna; IL'INA,
Sof'ya Glebovna; FATEYEV, A.V., doktor tekhn. nauk, prof., retsenzent;
KHOLODILIN, A.N., kand. tekhn. nauk, retsenzent; LEVITIN, S.G., inzh.,
retsenzent; GERASIMOV, A.V., kand. tekhn. nauk, nauch. red.; CHERTKOV, R.I.,
kand. fiz.-mat. nauk, nauch. red.; KAZAROV, Yu.S., red.; KUASTOVA, N.V., tekhn. red.

[Ship stabilizers] Uspokoiteli kachki sudov. Leningrad, Gos.soiuznoe
izd-vo sudostroit. promyshl., 1961. 515 p. (MIRA 14:12)
(Stability of ships)

TUMASHEVITS, V.F.[Tumasevic, V.]; SVIKIS, V.; KOLOTUKHINA, P.I.;
DANEMANE, V.; ZIEMELE, I.; IL'INA, S.G.; KARKLINA, S.;
SAKSONE, V.; LEVI, S., red.

[The lumbering and woodworking industry of the Baltic
Economic Region; its condition and prospects for develop-
ment] Lesopil'no-derevoobrabatyvaiushchaya promyshlen-
nost' Pribaltiiskogo ekonomicheskogo raiona; sostoianie
i perspektivy razvitiia. Riga, Izd-vo AN Latviiskoi SSR,
(MIRA 18:6)
1964. 95 p.

1. Latvijas Padomju Socialistiskas Republikas Zinatnu
Akademija. Ekonomikas instituts.

CP
ILINA, S.I.

131 AND 140 000851
PROCESSES AND PROPERTIES INDEX
2

The rate of absorption of ethylene by sulfuric acid at an elevated temperature and constant surface absorbency. V. V. Pogorelov and B. I. Ulling. Doklady Akad. Nauk S.S.R. 49, 331-3 (1940) [Compt. rend. acad. sci. U.R.S.S. 49, 331-3 (1940)] (in English). —A manometric method (cf. C.A. 34, 1016) was used to study the absorption of C_2H_4 (at 30-800 mm.) by H_2SO_4 (40 cc.) in a cylindrical glass reaction vessel having a diam. of 10 cm., an internal wetted surface of 400 sq. cm. and a vol. of 1000 cc. The vessel was held at $70^\circ \pm 0.05^\circ$ during most of the exps., and rotated through 360° every 30 sec. to wet the walls with acid. At a given degree of held time, the rate (K) of C_2H_4 absorption was proportional (1) to the C_2H_4 partial pressure, and (2) to the ratio of magnitude of absorption surface (S) to free vol. (V) of the reaction vessel. The proportionality const. (C) in the equation, $K = C(V/S)$, did not depend on the dimensions of the app. The value of $C \times 10^4$ increased from 0.6 in 1.0 to 13.4 at the H_2SO_4 concn. was increased from 46.8% to 90.4% to 99.4%. The temp. coeff. of C was 1.28 per 10° . The effectiveness const. (S/V) of the app. increased from 0.41 to 1.74 and 3.26, resp., on placing in the app. 110 and 320 percent of branching rings numbering 18×18 mm. J. W. Ferry

ASA-31A METALLURGICAL LITERATURE CLASSIFICATION

EXPT. 27-14172

KUINA, S. I., LIFSHITS, I. A., and REYKU, V. N.

"Polymers of Piperylene," a paper presented at the 9th Congress
on the Chemistry and Physics of High Polymers, 28 Jan-2 Feb 57, Moscow,
Rubber Research Inst.

B-3,084,395

LIVSHITS, I.A.; IL'INA, S.I.; REYKH, V.N.

Properties of polymers of piperylene. Khim. prom. no. 6:342-346
S '57. (MIRA 11:1)

(Piperylene) (Rubber, Synthetic)

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000618510011-8

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000618510011-8"

LIVSHITS, I.A.; IL'INA, S.I.; REYKH, V.N.

Polymerization of butadiene and piperylene mixtures. Kauch. i rez.
20 no.7:1-4 Jl '61. (MIRA 14:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo
kauchuka imeni S.V.Lebedeva.
(Butadiene) (Piperylene) (Polymerization)

LIVSHITS, I.A.; IL'INA, S.I.; REYKH, V.N.

Polymerization of butadiene, piperylene, and styrene mixtures.
Kauch. i roz. 20 no 8:1-3 Ag '61. (MIRA 14:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka imeni S.V. Lebedeva.
(Butadiene) (Piperylene)

SUSHENKO, K.A.; KLAIMENTSEVA, I.O.; GOROZHANKINA, N.P.; PLATONOVA, Z.S.
ALSENKOVA, A.V.; IL'INA, S.M.

Manufacture and investigation of standards of various alloys for
spectrum analysis. Izv.AN SSSR.Ser.fiz.19 no.2:161-164 Mr-Apr '55.
(Tartu--Spectrum analysis--Congresses) (MLRA 9:1)

IL'INA, S.M.

Main problems of karst mapping in the Crimean Mountains. Trudy
Inst.min.resur. AN URSR no.2:44-52 '60. (MIRA 15:5)
(Crimean Mountains---Karst)

"APPROVED FOR RELEASE: 04/03/2001

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Open (denuded) karst in the Crimean Mountains. Trudy MOIP
15:42-46 '65. (MIRA 18:9)

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IL'INA, S.S.

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27.2700

27.1220

AUTHORS:

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S/560/61/000/010/012/016
D298/D302
Arsen'eva, M. A., Antipov, V. V., Petrukhin,
V. G., L'vova, T. B., Orlova, N. N., and
Il'ina, S. S.

TITLE:

Changes in the blood-forming organs of mice
under the effect of flight in a space-ship

SOURCE:

Akademiya nauk SSSR. Iekunstvennye sputniki
Zemli. no. 10. Moscow, 1961, 82-92

TEXT: A study was made of the effects of flights in a space-
ship (the 2nd Sputnik) on the blood-forming organs of mice. An
attempt was made to differentiate between the action of vibra-
tion, acceleration and X-rays. The experiments were carried
out on 40 black C-57 (S-57) strain and white non-species mice.
Their weight fluctuated between 18 - 22 g. The same group of
animals was also used for the standard. All the animals re-
turned from cosmic flight in good condition. Cytology and

Card 1/4

Changes in the...

3834
S/560/61/000/010/012/016
D298/D302

histology methods for investigating the brain and spleen were used. The peripheral blood and the morphology of the bone marrow were studied. Experiments showed that there is a statistically valid frequency increase of mitosis destruction in the bone marrow cells of the experimental animals compared to the controls. Obtained data on chromosome destruction of mitosis in the cells of the bone marrow in mice having been in cosmic flight showed that these differed from the results obtained in X-radiation. Two main differences were noted: (1) in cosmic flight, the frequency of chromosome destruction did not drop prior to the end of the experiment; (2) there was almost complete absence of fragmentation in chromosome changes. The morphology studies of the bone marrow showed that in mice isolated for 30 days after returning to earth a sharp rejuvenation of the myelopoiesis was noted, expressed through an increased number of myeloblasts, promyelocytes, myelocytes. Analysis of the peripheral blood showed no noticeable deviations from the

Card 2/4

Changes in the...

33314
S/560/61/000/010/012/016
D298/D302

controls. The histology tests indicated that in the spleen of mice isolated for three days after the experiment the number of megacariocytes drops. Further analysis of the cytology and histology data revealed that certain changes were noted in the blood-forming organs of the mice after cosmic flight. It is assumed, however, that these changes occurred due to several factors in addition to cosmic radiation. Special tests to differentiate the effects of the various factors showed that cosmic flight caused changes in the blood-forming organs due to mechanical factors as well as primarily vibration. Listed data indicate that vibration is one of the main causes of bone marrow and spleen changes. The biological effectiveness of cosmic radiation and other flight factors is said to be still unknown, requiring further studies of cosmic radiation effects over long periods of time on biological specimens. There 6 figures, 5 tables and 4 references: 1 Soviet-bloc and 3 non-Soviet-bloc. The references to the English-language publications read as

Card 3/4

33314
S/560/61/000/010/012/016
D298/D302

Changes in the...

follows: F. Devik; Brit. J. Radiol., 27, 463, 1954; G. D.
Darlington, L. P. La Cour, J. Heredity, Suppl. 6, 1952.

SUBMITTED: May 3, 1961

Card 4/4

2
S/865/6/002/00/012/042
D405/D5/1

AUTHORS: Arsen'yeva, M.A., Antipov, V.V., Petrukhin, V.G.,
L'vova, T.S., Orlova, N.N., Il'ina, S.S., Kabanova,
L.A., and Kalyayeva, E.S.

TITLE: Cytologic and histologic changes in blood-forming
organs of mice under the effect of space flight
conditions

SOURCE: Problemy kosmicheskoy biologii. v. 2. Ed. by N. Sisa-
kyan and V. Yazdovskiy. Moscow, Izd-vo Akademi SSSR, 1962,
116-127

TEXT: In the investigations, an attempt was made at differ-
entiating between the effects of dynamic factors of flight such as
vibration, acceleration and weightlessness. The experiments were
conducted on males of black-linear (C57) mice, and on white mice.
A cytological analysis of the bone marrow cells revealed a distur-
bance of mitosis under the effect of space flight. It was found
that the majority of chromosome aberrations appeared now as a result

Card 1/3

Cytologic and histologic ...

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of chromosome disruption, but through sticking together with possible subsequent anomalous separation. Morphological studies of the bone marrow showed, after 30 days, an increase in the number of myeloblasts, promyelocytes and myelocytes. Histologic investigations of the spleen of the mice showed, during the first days of the experiment, a decrease in the number of follicles and megacaryocytes; towards the 30th day the number of the latter increased again and on the 60th day the blood formation was renewed. Special experiments were conducted in order to ascertain the specific effects of vibration, acceleration and weightlessness. It was found that Serotonin, introduced intraperitoneally into the mice 15 minutes before the experiment, was an effective means of protection against vibration damage of cells. Conclusions: Space flight caused disturbances in the bone marrow and spleen of mice that were recorded 70 days after the flight and lasted from 8 months. Both vibration and weightlessness experiments produced similar vibrations and changes in cell acceleration in a state of weightlessness can lead to a disruption in the spindle apparatus of the cell. It is evident that the effects of space flight on the cell cause more complex problems, involving

Card 7/3

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Ecologic and Histologic

many factors. However, the biological method of classification
together undetermined, is very useful further. Figures and tables

in preparations from controls. In contrast, the proportion of affected cells was increased at the end of the observation period. The findings differed in this respect from the effects of X-irradiation, where the proportion of changes were

Card 1/2

Changes in the haemopoietic organs... S/865/62/001/000/010/033
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abnormalities declines steadily and the usual finding is fragmentation of the chromosomes. No abnormalities were noted in preparations of the peripheral blood. Preparations of the spleen showed a decline in megakaryocytes after 3 days and shrinkage of follicles after 9 days, followed later by enlargement and the appearance of atypical cells. The chromosome abnormalities described could be largely duplicated by exposure of normal mice to vibration, which was probably of greater importance than cosmic radiation as a cause of abnormalities in animals undergoing space flights.

There are 6 figures and 5 tables.

Card 2/2

ARSEN'YEVA, M.A.; ANTIPOV, V.V.; PETRUKHIN, V.G.; L'VOVÁ, T.S.;
ORLOVA, N.N.; IL'INA, S.S.; KABANOVA, L.A.; KALYAEVA, E.S.

Effect of space flight in spaceships on the cytological and
histological changes in the hemopoietic organs of mice.
Probl.kosm.biol. 2:116-127 '62. (MIRA 16:4)
(SPACE FLIGHT—PHYSIOLOGICAL EFFECT)
(HEMOPOIETIC SYSTEM)